

# Surface-Coated Paperboard Manufacturing: 2002

Issued August 2004

EC02-311-322226

## 2002 Economic Census

*Manufacturing*

Industry Series



USCENSUSBUREAU

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



## CONTENTS

Introduction to the Economic Census .....	v
Manufacturing .....	ix

### Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002 .....	2
3. Detailed Statistics by Industry: 2002 .....	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002 .....	5
6a. Products Statistics: 2002 and 1997 .....	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	--
7. Materials Consumed by Kind: 2002 and 1997.....	8

### Appendixes

A. Explanation of Terms .....	A-1
B. NAICS Codes, Titles, and Descriptions .....	B-1
C. Methodology .....	C-1
D. Geographic Notes .....	--
E. Metropolitan and Micropolitan Statistical Areas .....	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997 .....	F-1

-- Not applicable for this report.

# Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
322226, Surface-coated paperboard manufacturing .....	2002..	49	61	3 028	108 915	2 280	5 057	66 698	284 782	583 925	880 298	20 875
	2001..	N	N	2 630	89 681	1 950	4 476	55 088	248 515	568 529	806 929	9 319
	2000..	N	N	3 064	104 339	2 264	5 018	65 366	286 183	620 830	907 196	17 443
	1999..	N	N	3 092	118 311	2 312	5 352	68 136	370 716	583 422	953 395	39 641
	1998..	N	N	3 280	123 539	2 490	5 564	73 351	353 915	763 336	1 111 644	19 905
	1997..	42	55	3 294	126 122	2 477	5 533	75 550	354 799	799 004	1 153 433	15 168

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
322226, Surface-coated paperboard manufacturing												
United States .....	1	61	38	3 028	108 915	2 280	5 057	66 698	284 782	583 925	880 298	20 875
Georgia .....	—	3	3	221	7 616	187	404	6 221	17 549	76 437	93 291	369
Illinois .....	7	5	3	363	14 368	245	591	6 103	39 711	64 867	105 291	4 940
Missouri .....	—	3	2	268	8 448	215	486	4 375	15 132	29 378	44 889	461

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>322226, Surface-coated paperboard manufacturing</b>	
Companies <sup>1</sup> .....	number.. 49
All establishments <sup>2</sup> .....	number.. 61
Establishments with 1 to 19 employees .....	number.. 23
Establishments with 20 to 99 employees .....	number.. 27
Establishments with 100 employees or more .....	number.. 11
All employees <sup>3</sup> .....	number.. 3 028
Total compensation .....	\$1,000.. 142 003
Annual payroll .....	\$1,000.. 108 915
Total fringe benefits .....	\$1,000.. 33 088
Production workers, average for year .....	number.. 2 280
Production workers on March 12 .....	number.. 2 343
Production workers on May 12 .....	number.. 2 338
Production workers on August 12 .....	number.. 2 258
Production workers on November 12 .....	number.. 2 174
Production worker hours .....	1,000.. 5 057
Production worker wages .....	\$1,000.. 66 698
Total cost of materials .....	\$1,000.. 583 925
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 553 033
Resales .....	\$1,000.. 16 163
Purchased fuels .....	\$1,000.. 3 890
Purchased electricity .....	\$1,000.. 8 079
Contract work .....	\$1,000.. 2 760
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 142 620
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. -
Total value of shipments .....	\$1,000.. 880 298
Primary products value of shipments .....	\$1,000.. 805 014
Secondary products value of shipments .....	\$1,000.. 50 513
Total miscellaneous receipts .....	\$1,000.. 24 771
Value of resales .....	\$1,000.. 17 603
Contract receipts .....	\$1,000.. 5 514
Other miscellaneous receipts .....	\$1,000.. 1 654
Primary products specialization ratio .....	percent.. 94
Value of primary products shipments made in all industries .....	\$1,000.. 867 277
Value of primary products shipments made in this industry .....	\$1,000.. 805 014
Value of primary products shipments made in other industries .....	\$1,000.. 62 263
Coverage ratio .....	percent.. 93
Value added .....	\$1,000.. 284 782
Total inventories, beginning of year .....	\$1,000.. 86 542
Finished goods inventories .....	\$1,000.. 37 564
Work-in-process inventories .....	\$1,000.. 7 724
Materials and supplies inventories .....	\$1,000.. 41 254
Total inventories, end of year .....	\$1,000.. 70 530
Finished goods inventories .....	\$1,000.. 26 405
Work-in-process inventories .....	\$1,000.. 7 292
Materials and supplies inventories .....	\$1,000.. 36 833
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. 319 814
Total capital expenditures (new and used) .....	\$1,000.. 20 875
Buildings and other structures (new and used) .....	\$1,000.. 2 537
Machinery and equipment (new and used) .....	\$1,000.. 18 338
Automobiles, trucks, etc., for highway use .....	\$1,000.. 919
Computers and peripheral data processing equipment .....	\$1,000.. 1 240
All other expenditures for machinery and equipment .....	\$1,000.. 16 179
Total retirements .....	\$1,000.. 7 672
Gross value of depreciable assets at end of year .....	\$1,000.. 333 017
Depreciation charges during year .....	\$1,000.. 23 995
Total rental payments .....	\$1,000.. 9 645
Buildings and other structures .....	\$1,000.. 7 515
Machinery and equipment .....	\$1,000.. 2 130
Total other expenses <sup>4</sup> .....	\$1,000.. 27 410
Response coverage ratio <sup>5</sup> .....	percent.. 66
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 9 260
Communications services <sup>4</sup> .....	\$1,000.. 988
Legal services <sup>4</sup> .....	\$1,000.. 47
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. D
Advertising and promotional services <sup>4</sup> .....	\$1,000.. D
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 581
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 1 290
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 656
Taxes and license fees <sup>4</sup> .....	\$1,000.. 1 694
All other expenses <sup>4</sup> .....	\$1,000.. 12 689

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
322226, Surface-coated paperboard manufacturing											
All establishments .....	1	61	3 028	108 915	2 280	5 057	66 698	284 782	583 925	880 298	20 875
Establishments with—											
1 to 4 employees .....	9	12	b	D	D	D	D	D	D	D	D
5 to 9 employees .....	7	3	b	D	D	D	D	D	D	D	D
10 to 19 employees .....	6	8	116	4 001	91	187	2 882	10 931	21 991	33 191	950
20 to 49 employees .....	1	16	498	17 805	377	863	10 643	41 363	79 594	121 201	4 671
50 to 99 employees .....	—	11	782	33 135	578	1 334	22 025	80 349	262 957	350 655	5 989
100 to 249 employees .....	3	11	1 584	52 497	1 209	2 621	30 410	149 600	214 967	368 218	8 975
250 to 499 employees .....	—	—	—	—	—	—	—	—	—	—	—
500 to 999 employees .....	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	—	—	—	—	—	—	—	—	—	—	—

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
322226	Surface-coated paperboard manufacturing .....	61	3 028	108 915	2 280	5 057	66 698	284 782	583 925	880 298	20 875
3222260	Pasted, lined, laminated, or surface-coated paperboard .....	61	3 028	108 915	2 280	5 057	66 698	284 782	583 925	880 298	20 875

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
322226	Surface-coated paperboard manufacturing .....	N	X	X	867 277
	1997 ..	N	X	X	1 138 806
3222260	Pasted, lined, laminated, or surface-coated paperboard .....	N	X	X	867 277
	1997 ..	N	X	X	1 138 806
32222601	Pasted, lined, laminated, or surface-coated paperboard .....	N	X	X	864 438
	1997 ..	N	X	X	1 138 277
3222260100	Pasted, lined, laminated, or surface-coated paperboard ..... 1, 000 s tons..	68	X	91 190.2	864 438
	1997 ..	61	X	1 428.4	1 138 277
3222260Y	Pasted, lined, laminated, or surface-coated paperboard, nsk, total .....	N	X	X	2 839
	1997 ..	N	X	X	529
3222260YWW	Pasted, lined, laminated, or surface-coated paperboard, nsk, for nonadministrative-record establishments .....	N	X	X	2 839
	1997 ..	N	X	X	529
3222260YWY	Pasted, lined, laminated, or surface-coated paperboard, nsk, for administrative-record establishments .....	N	X	X	—
	1997 ..	N	X	X	—

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.



Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
322226	Surface-coated paperboard manufacturing		
00900001	Total materials .....	2002.. X	553 033
		1997.. X	766 961
32210005	Paper and paperboard (excluding boxes and containers) ..... 1, 000 s tons .....	2002.. 833.5	444 937
		1997.. 1 023.7	598 591
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....	2002.. X	28 466
		1997.. X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....	2002.. X	18 894
		1997.. X	94 274
31332007	Coated or laminated fabrics, including vinyl coated ..... mil sq yd .....	2002.. S	9 334
		1997.. N	N
32552002	Glues and adhesives .....	2002.. X	9 414
		1997.. X	N
32591002	Printing inks .....	2002.. X	3 407
		1997.. X	N
32221001	Paperboard containers, boxes, and corrugated paperboard .....	2002.. X	2 610
		1997.. X	7 678
00970099	All other materials and components, parts, containers, and supplies .....	2002.. X	20 953
		1997.. X	57 441
00971000	Materials, ingredients, containers, and supplies, nsk .....	2002.. X	15 018
		1997.. X	8 977

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.